

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,783	10/04/2000	Nicholas W. Dawes	551P08US-1	6059
20779 75	590 08/22/2005	EXAMINER		
SHAPIRO CO	OHEN	DUONG, FRANK		
P.O. BOX 3440)			
STATION D			ART UNIT	PAPER NUMBER
OTTAWA, ON	N K1P6P1	2666		
CANADA			DATE MAILED: 08/22/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/678,783	DAWES ET AL.				
		Examiner	Art Unit				
		Frank Duong	2666				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover she	et with the correspondence a	ddress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REI MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per tre to reply within the set or extended period for reply will, by stareply received by the Office later than three months after the may ed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, m reply within the statutory minimum tod will apply and will expire SIX (6) tute, cause the application to become	nay a reply be timely filed of thirty (30) days will be considered time MONTHS from the mailing date of this of me ABANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	.					
2a) <u></u>	This action is FINAL . 2b)⊠ T	his action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims		•••				
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1 and 3-17</u> is/are pending in the ap 4a) Of the above claim(s) is/are without Claim(s) <u>1,3-11 and 17</u> is/are allowed. Claim(s) <u>12-14</u> is/are rejected. Claim(s) <u>15 and 16</u> is/are objected to. Claim(s) are subject to restriction and	rawn from consideration					
Applicati	ion Papers						
9)[The specification is objected to by the Exam	iner.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)[Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the			` '			
Priority ι	under 35 U.S.C. § 119						
12)□ a)∣	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure See the attached detailed Office action for a least	ents have been received, ents have been received riority documents have b eau (PCT Rule 17.2(a)).	in Application No een received in this National	l Stage			
Attachmen	t(s)						
	e of References Cited (PTO-892)		iew Summary (PTO-413)				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ r No(s)/Mail Date		No(s)/Mail Date e of Informal Patent Application (PT :	O-152)			

DETAILED ACTION

1. Prosecution on the merits of this application is reopened on claims 12-14 considered unpatentable for the reasons indicated below:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al (USP 5,793,976) (hereinafter "Chen").

Regarding **claim 12**, in accordance with Chen reference entirety, Chen discloses a method of determining performance ("packet delay" pertaining Fig. 2-3 and "packet loss" pertaining Figs. 4-5) of a route in a network (Figs. 2-5) (see abstract pertaining cumulative delay along a virtual connection or col. 7, lines 2-3; "track the performance of each node along the virtual connection") comprising:

- a) determining a source network object (Fig. 2; NODE1);
- b) determining a destination network object (Fig. 2; NODE3);
- c) determining a route (virtual connection) through the network (Fig. 2) from the source network object (*Fig. 2; NODE1*) to the destination network object (*Fig. 2; NODE3*);

d) measuring the network performance (delay) of each node object on the route (col. 7, lines 23-24 and thereinafter); and

e) aggregating the network performance obtained in step d) to obtain a total network performance for the route (col. 8, lines 41-48 and thereinafter).

Regarding **claim 13**, in addition to features recited in base claim 12 (see rationales discussed above), Chen further discloses wherein said network performance is that of a packet's delay through said network element and said total network performance for the route is the total end to end delay for a packet traversing said route (virtual connection) (*col.* 7, lines 20-27; *col.* 8, lines 41-48 and thereinafter).

Regarding **claim 14**, in addition to features recited in base claim 12 (see rationales discussed above), Chen further discloses wherein said network performance is that of a network element's drop rate of packets (packet loss) and said total network performance is the end to end transmission fraction (total cell loss) over a path (virtual connection) (*col. 10*, *lines 1-2 and thereinafter*).

Allowable Subject Matter

- 3. Claims s 1, 3-11 and 17 allowed.
- 4. Claims 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record, considered individually or in combination, fails to fairly

Application/Control Number: 09/678,783

Art Unit: 2666

show or suggest claimed invention comprising, among other limitation, a novel and unobvious limitation of obtaining a total routing through a network by combining routing for packets through each segment based on connection between non-routing objects, and between routing objects, structurally and functionally interconnected with other limitations in a manner as recited in claims 1, 3-10 and 17.

Page 4

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record, considered individually or in combination, fails to fairly show or suggest claimed invention comprising, among other limitation, a novel and unobvious limitation of determining connections between network objects using the topology of the LAN segment, structurally and functionally interconnected with other limitations in a manner as recited in claim 11.

The claimed subject matters in the dependent claims 15-16 are also deemed to be novel and unobvious over the prior art of record.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hefel et al (USP 5,563,875).

Baidon et al (USP 5,699,348).

Mirek et al (USP 5,878,032).

Application/Control Number: 09/678,783 Page 5

Art Unit: 2666

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Duong whose telephone number is 571-272-3164. The examiner can normally be reached on 7:00AM-3:30PM, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FRANK DUONG
PRIMARY EXAMINER